

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 3733 (2000): Conventional Signs and Symbols for Ships
Ventilation Systems [TED 17: Shipbuilding]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

BLANK PAGE



भारतीय मानक

जलपोत निर्माण — संवातन तंत्र के संस्थापनों हेतु स्कीमों में
प्रयोग किए जाने वाले पारम्परिक प्रतीक — सिफारिशें
(पहला पुनरीक्षण)

Indian Standard

SHIPBUILDING — CONVENTIONAL SIGNS TO BE
USED IN SCHEMES FOR THE INSTALLATIONS OF
VENTILATION SYSTEMS — RECOMMENDATIONS
(*First Revision*)

ICS 01.080.30;47.020.90

© BIS 2000

BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

July 2000

Price Group 6

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Shipbuilding Sectional Committee had been approved by the Transport Engineering Division Council.

This standard was first published in 1966. In this revision changes in signs, specially pertaining to ventilators have been made.

In order to achieve harmony with the international practices, this standard is based on ISO/R 644:1967 'Conventional signs to be used in schemes for the installations of ventilation systems in ships' brought out by International Organization for Standardization (ISO).

IS 9752:1981 'Conventional signs for the installation of ships' ventilation and pipelines systems' elaborately cover all signs for ships' ventilation and pipeline systems. This Indian Standard covers typical signs for installation of ventilation systems in ships.

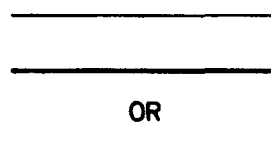
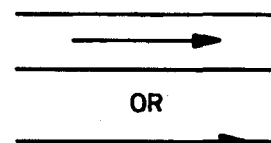
Indian Standard

SHIPBUILDING — CONVENTIONAL SIGNS TO BE USED IN SCHEMES FOR THE INSTALLATIONS OF VENTILATION SYSTEMS — RECOMMENDATIONS (*First Revision*)

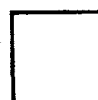
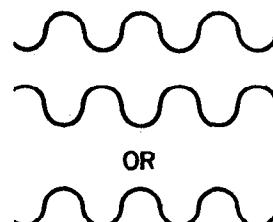
1 SCOPE

1.1 This Indian Standard covers conventional signs to be used in schemes for the installations of ventilation systems in ships.

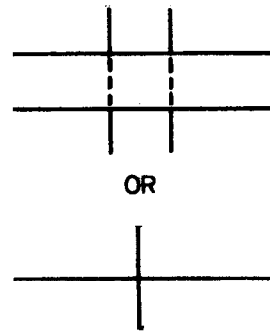
1.2 Conventional signs, not covered in this standard may be derived from the General conventional signs by adding an elucidation to the legend of the drawing.

2 GENERAL CONVENTIONAL SIGNS**2.1 Duct****2.1.1 Duct with Indication of Direction of Flow****2.2 Apparatus and Fitting**

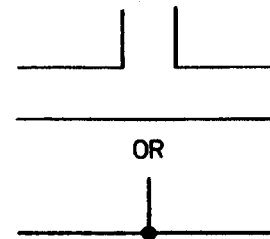
NOTE — The square should be either mentioned in the legend of the drawing or accompanied by special abbreviations indicating the fitting concerned.

**3 SIGNS FOR DUCTS AND DUCT JOINTS****3.1 Flexible Duct**

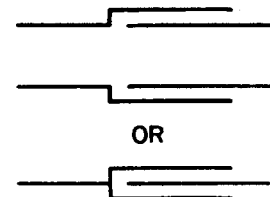
3.2 Crossing of Ducts Not Connected



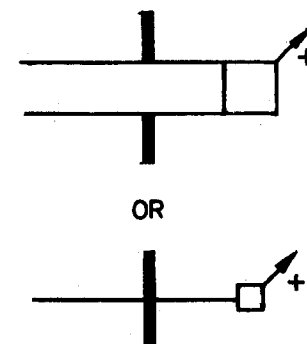
3.3 Connection of Ducts



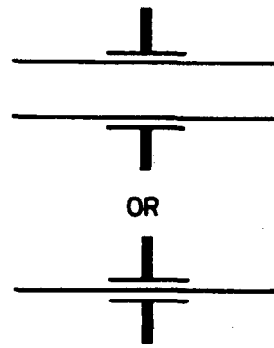
3.4 Compensating Joint with Gland



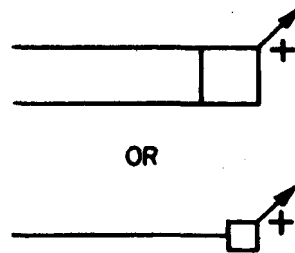
3.5 Bulkhead Crossing, Watertight, Fire Resistant



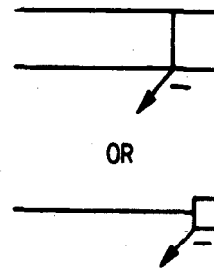
**3.6 Bulkhead Crossing, Non-Watertight
Non-Fire Resistant**



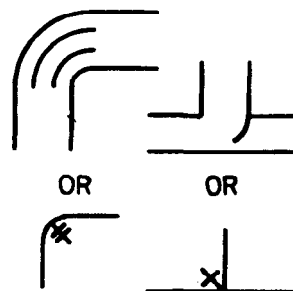
3.7 Duct Going Upwards (+)



3.8 Duct Going Downwards (-)

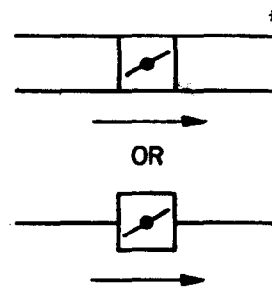


3.9 Vanes

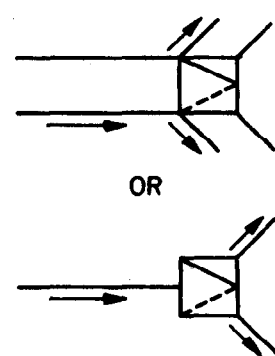


4 SIGNS FOR APPLIANCES AND FITTINGS

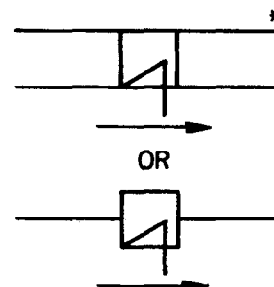
4.1 Butterfly Damper



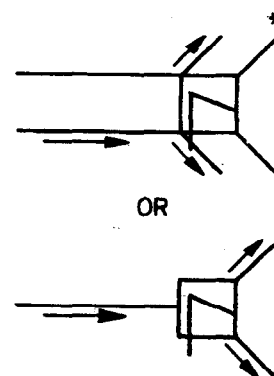
4.2 Changeover Damper



4.3 Reducing Damper

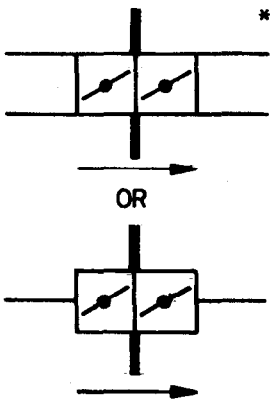


4.4 Distributing Damper



*The arrow gives the direction of flow of the air, but need not be drawn in drawings and/or schemes.

4.5 Fire Damper



4.6 Air Filter

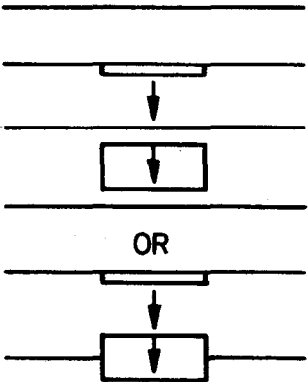


4.7 Silencer



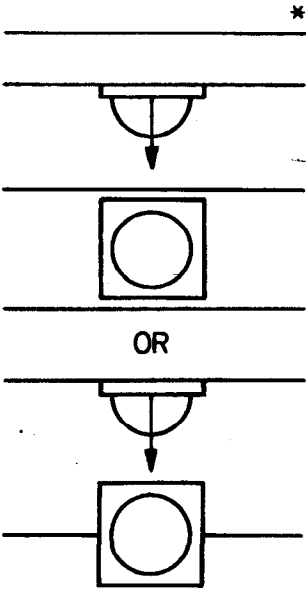
4.8 Normal Air Outlet (↓)

NOTE Indication for inlet: ↑

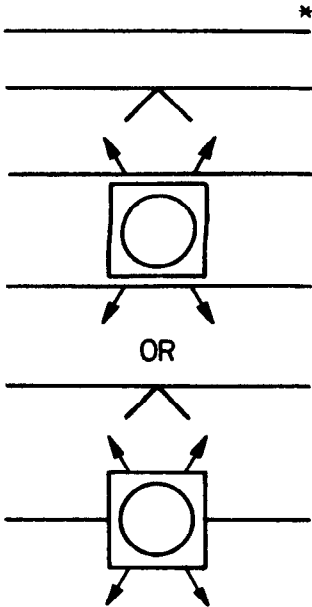


*The arrow gives the direction of flow of the air, but need not be drawn in drawings and/or schemes.

4.9 Punkah Louvre Outlet

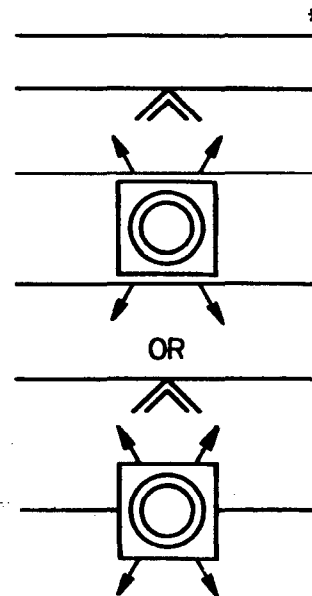


4.10 Diffuser Outlet

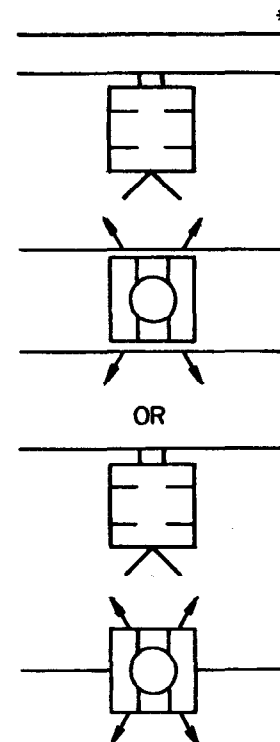


*The arrow gives the direction of flow of the air, but need not be drawn in drawings and/or schemes.

4.11 Anemostat Outlet

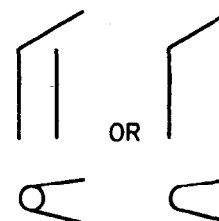


4.12 Silencer with Diffuser Outlet



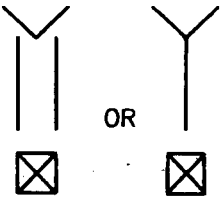
5 SIGNS FOR VENTILATORS

5.1 Turnable Supply Ventilator Cowl

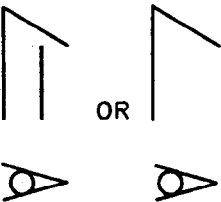


*The arrow gives the direction of flow of the air, but need not be drawn in drawings and/or schemes.

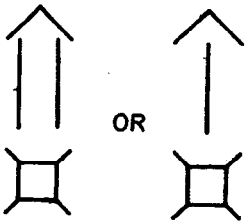
5.2 Fixed Supply Ventilator Cowl



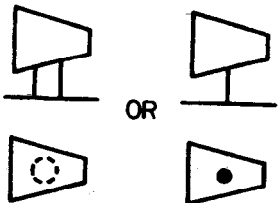
5.3 Turnable Exhaust Ventilator Cowl



5.4 Fixed Exhaust Ventilator Cowl

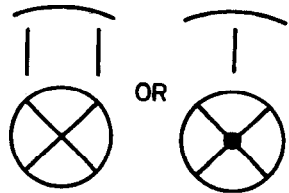


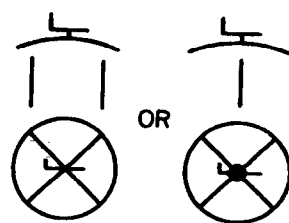
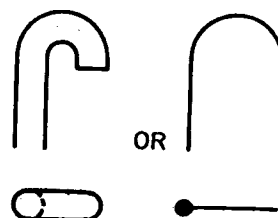
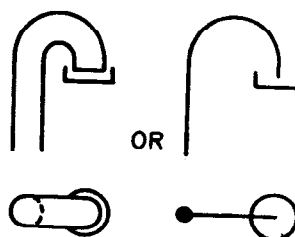
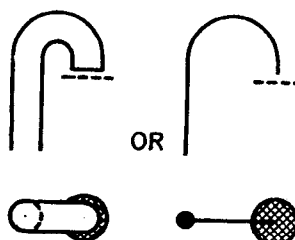
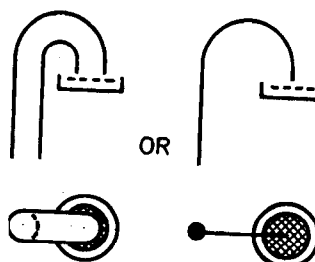
5.5 Exhaust Wall Ventilator Cowl



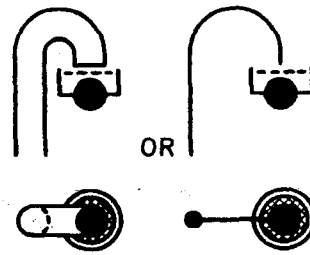
5.6 Mushroom Ventilator

NOTE --- Where applicable with indication: *with screen*.



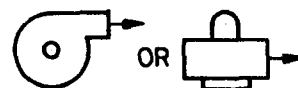
5.7 Mushroom Ventilator with Closing DeviceNOTE — Where applicable with indication: *with screen*.**5.8 Swan Neck Ventilator****5.9 Swan Neck Ventilator with Closing Device****5.10 Swan Neck Ventilator with Flame-Arresting Gauze****5.11 Swan Neck Ventilator with Flame-Arresting Gauze and Closing Device**

5.12 Swan Neck Ventilator with Flame-Arresting Gauze and Automatic Closing Device with Ball

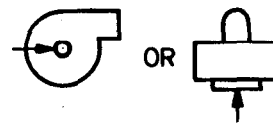


6 VARIOUS CONVENTIONAL SIGNS

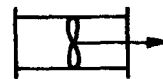
6.1 Centrifugal Supply Fan



6.2 Centrifugal Exhaust Fan



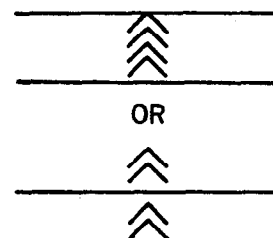
6.3 Axial Supply Fan



6.4 Axial Exhaust Fan



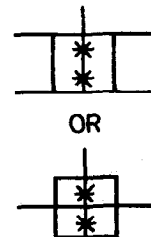
6.5 Diffuser



6.6 Moisture Eliminator



6.7 Humidifying Section



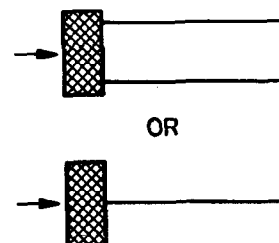
6.8 Air Heater



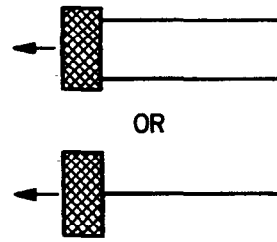
6.9 Air Cooler



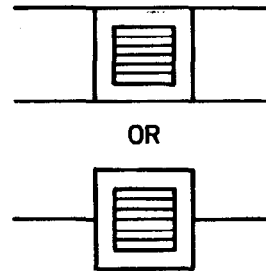
6.10 Fresh Air Grill



6.11 Vicious Air Discharge Grill



6.12 Air Conditioning Unit



Bureau of Indian Standards

BIS is a statutory institution established under the *Bureau of Indian Standards Act, 1986* to promote harmonious development of the activities of standardization, marking and quality certification of goods and attending to connected matters in the country.

Copyright

BIS has the copyright of all its publications. No part of these publications may be reproduced in any form without the prior permission in writing of BIS. This does not preclude the free use, in the course of implementing the standard, of necessary details, such as symbols and sizes, type or grade designations. Enquiries relating to copyright be addressed to the Director (Publications), BIS.

Review of Indian Standards

Amendments are issued to standards as the need arises on the basis of comments. Standards are also reviewed periodically; a standard along with amendments is reaffirmed when such review indicates that no changes are needed; if the review indicates that changes are needed, it is taken up for revision. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition by referring to the latest issue of 'BIS Catalogue' and 'Standards: Monthly Additions'.

This Indian Standard has been developed from Doc : No. TED 17 (244).

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002
Telephones : 323 01 31, 323 33 75, 323 94 02

Telegrams : Manaksanstha
(Common to all offices)

Regional Offices:

	Telephone
Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg NEW DELHI 110002	{ 323 76 17 323 38 41
Eastern : 1/14 C. I.T. Scheme VII M, V.I.P. Road, Kankurgachi CALCUTTA 700 054	{ 337 84 99, 337 85 61 337 86 26, 337 91 20
Northern : SCO 335-336, Sector 34-A, CHANDIGARH 160 022	{ 60 38 43 60 20 25
Southern : C.I.T. Campus, IV Cross Road, CHENNAI 600 113	{ 235 02 16, 235 04 42 235 15 19, 235 23 15
Western : Manakalaya, E9 MIDC, Marol, Andheri (East) MUMBAI 400 093	{ 832 92 95, 832 78 58 832 78 91, 832 78 92
Branches : AHMADABAD . BANGALORE . BHOPAL . BHUBANESHWAR . COIMBATORE . FARIDABAD . GHAZIABAD . GUWAHATI . HYDERABAD . JAIPUR . KANPUR . LUCKNOW . NAGPUR . PATNA . PUNE . RAJKOT . THIRUVANANTHAPURAM.	